Claims

- [c1] 1. A method of fabricating a precision circuit element comprising: creating one or more redundant circuit elements; creating one or more trim circuit elements; creating one or more links coupling said redundant circuit elements to said trim circuit elements; selectively activating one or more of said links to achieve a desired capacitance.
- [c2] 2. The method of claim 1 where said links are fusible links and said activating comprises blowing of said fusible links.
- [c3] 3. The method of claim 1 where said links are antifuses and said activating comprises fusing of said antifuses.
- [c4] 4. A method of fabricating a precision capacitor comprising:

creating one or more redundant plates; creating one or more trim plates; creating one or more links coupling said redundant plates to said trim plates;

creating a common plate capacitively coupled to said re-

dundant plates and said trim plates; and selectively activating one or more of said links to achieve a desired capacitance.

- [c5] 5. The method of claim 4 where said links are fusible links and said activating comprises blowing of said fusible links.
- [c6] 6. The method of claim 4 where said links are antifuses and said activating comprises fusing of said antifuses.
- [c7] 7. A method of fabricating a precision capacitor comprising:

creating a capacitor having a first plate and a second plate, said first plate capacitively coupled to said second plate;

creating a plurality of trim capacitors each having a first trim plate and a second trim plate said first trim plate capacitively coupled to said second trim plate; connecting, in series, said capacitor and said trim capacitors;

connecting one or more links in parallel with each of said trim capacitors; and

selectively activating said one or more of said links to achieve a desired capacitance.

[08] 8. The method of claim 7 where said links are fusible

links and said activating comprises blowing of said fusible links.

- [09] 9. The method of claim 7 where said links are antifuses and said activating comprises fusing of said antifuses.
- [c10] 10. A method of forming a capacitor comprising:
 depositing a first insulator film;
 etching a first trough;
 depositing a first liner within said first trough;
 depositing a first conductive electrode within said
 trough;
 polishing off excess material;
 depositing a second insulator film over said first conductive electrode;
 etching a second trough extending through said second insulator film extending to said first copper electrode;
 cleaning surfaces;

applying a thin dielectric over said exposed first copper electrode;

depositing a second liner; depositing a second copper electrode; and polishing off excess material.

[c11] 11. The method of claim 10 wherein said applying is depositing a thin dielectric.

[c12] 12. The method of claim 10 wherein said applying is growing a thin dielectric.